

ABSTRACT OF THE DISCLOSURE

A position control method by motor drive has the steps of rotating a rotor of the motor according to the given target opening, and detecting the opening of a movable vane by an encoder, the motor opening and shutting a passage of an intake air pipe to a turbo charger of the automobile by the movable vane, and controlling the movable vane in the passage of the intake air pipe so that it may reach the target opening, the rotational position of the motor is controlled to the stop position in the direction where the movable vane is closed and the stop position in the direction where the movable vane is opened, and the motor is controlled so that the passage of the intake air pipe may become the target opening by setting the stop position as an operation reference position of the motor, and setting between the stop positions as driving dynamic range of the motor.